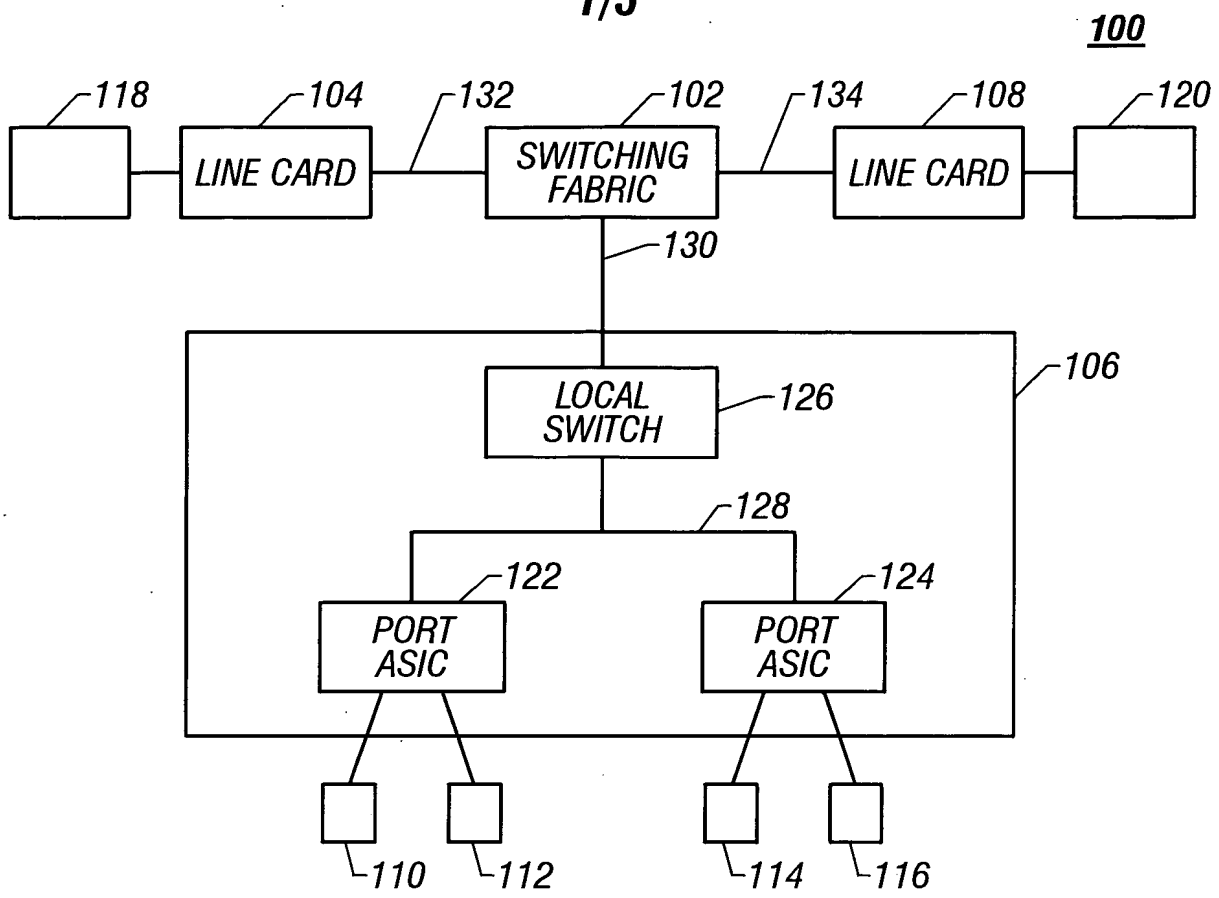
100
118
104
132
102
134
108
120
LINE CARD
SWITCHING FABRIC
LINE CARD
130
106
LOCAL SWITCH
126
128
122
124
PORT ASIC
PORT ASIC
110
112
114
116

FIG. 1

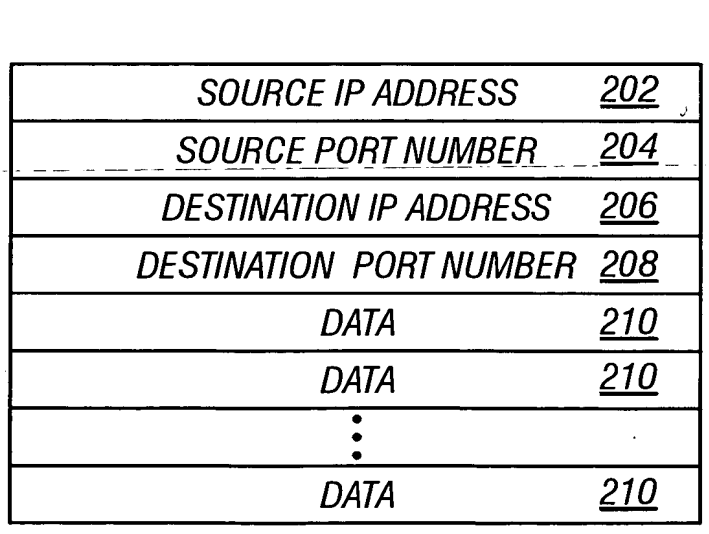
200
SOURCE IP ADDRESS 202
SOURCE PORT NUMBER 204
DESTINATION IP ADDRESS 206
DESTINATION PORT NUMBER 208
DATA 210
DATA 210
DATA 210

FIG. 2

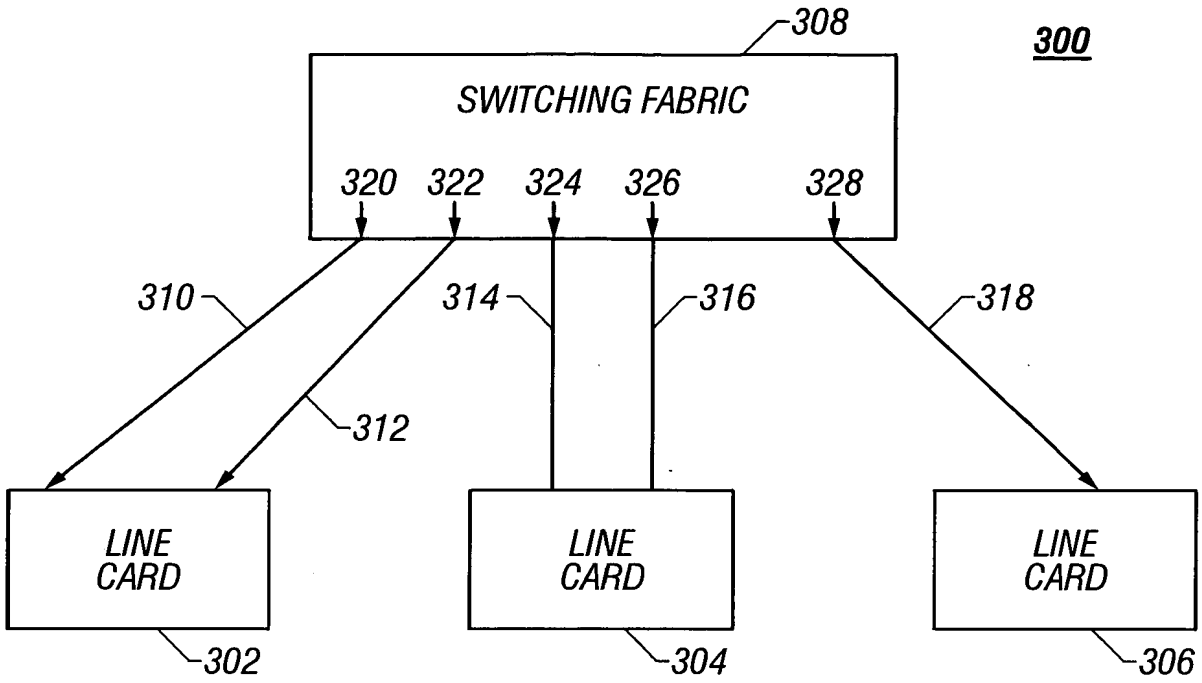
300
308
SWITCHING FABRIC
320
322
324
326
328
310
312
314
316
318
LINE CARD
LINE CARD
LINE CARD
302
304
306

FIG. 3

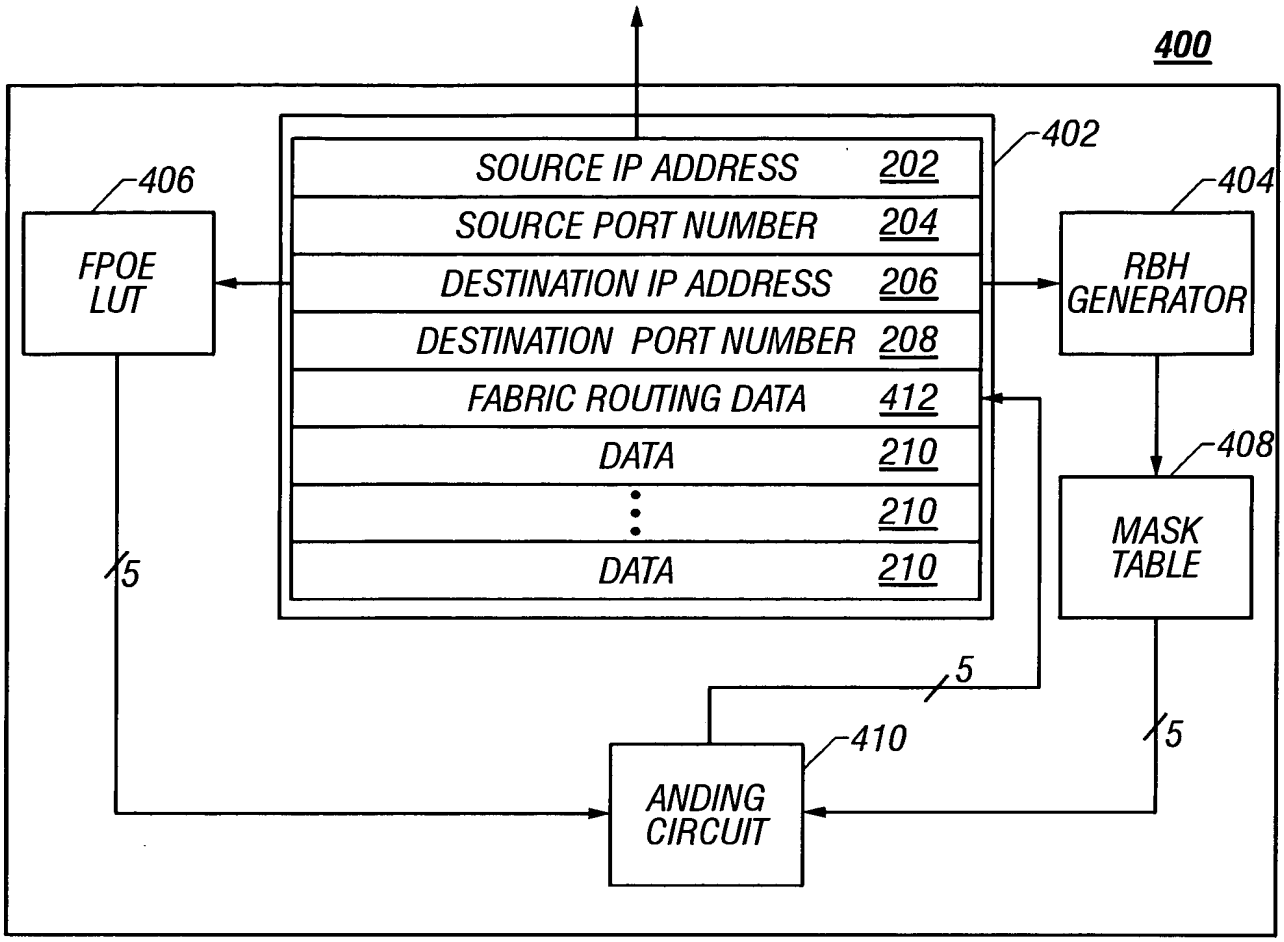
400
402
SOURCE IP ADDRESS 202
SOURCE PORT NUMBER 204
DESTINATION IP ADDRESS 206
DESTINATION PORT NUMBER 208
FABRIC ROUTING DATA 412
DATA 210
210
DATA 210
406
FPOE LUT
404
RBH GENERATOR
408
MASK TABLE
5
5
5
410
ANDING CIRCUIT

FIG. 4

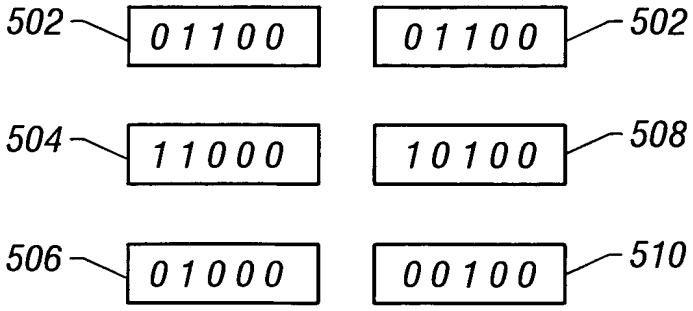
502
01100
01100
502
504
11000
10100
508
506
01000
00100
510

FIG. 5

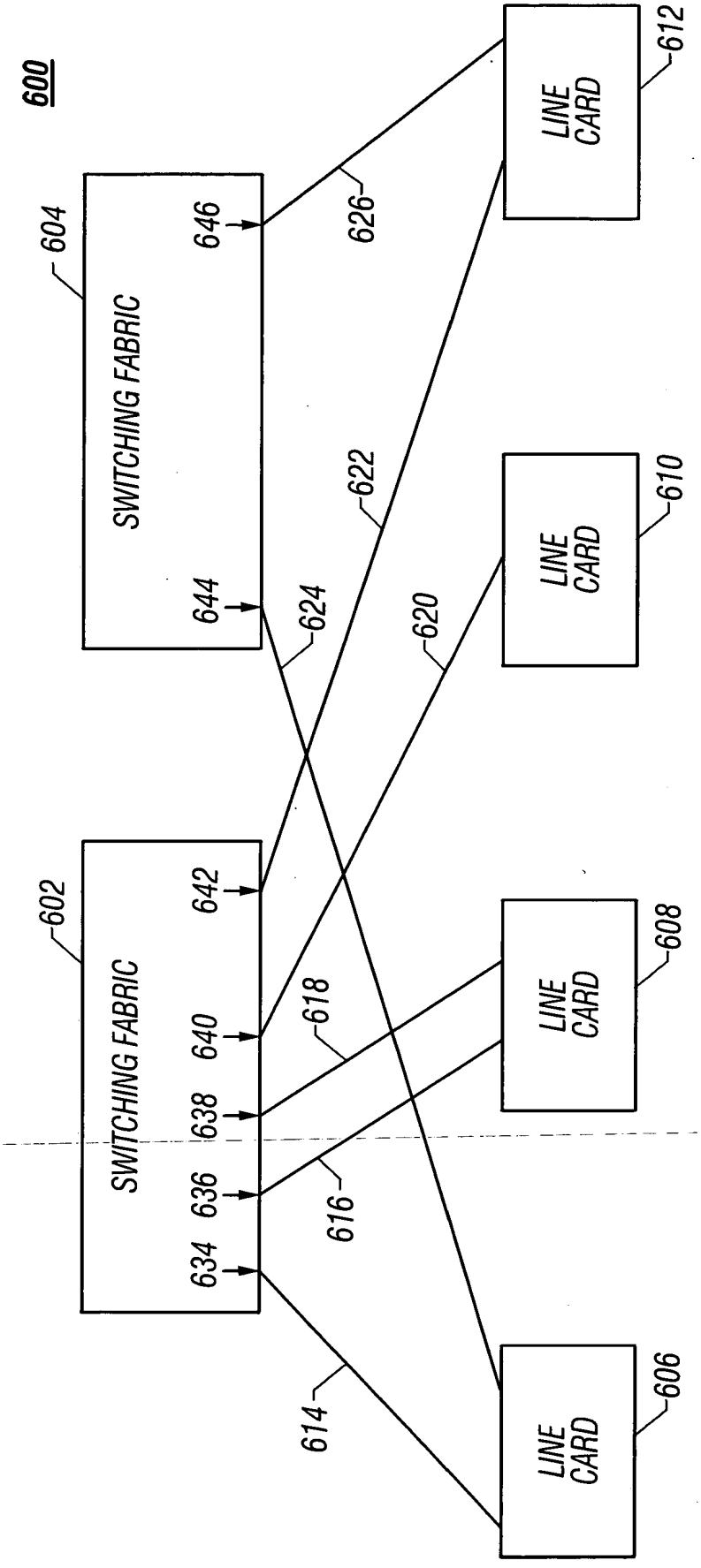
600
SWITCHING FABRIC
604
646
644
SWITCHING FABRIC
602
642
640
638
636
634
LINE CARD
612
LINE CARD
610
LINE CARD
608
LINE CARD
606
626
622
624
620
618
616
614

FIG. 6

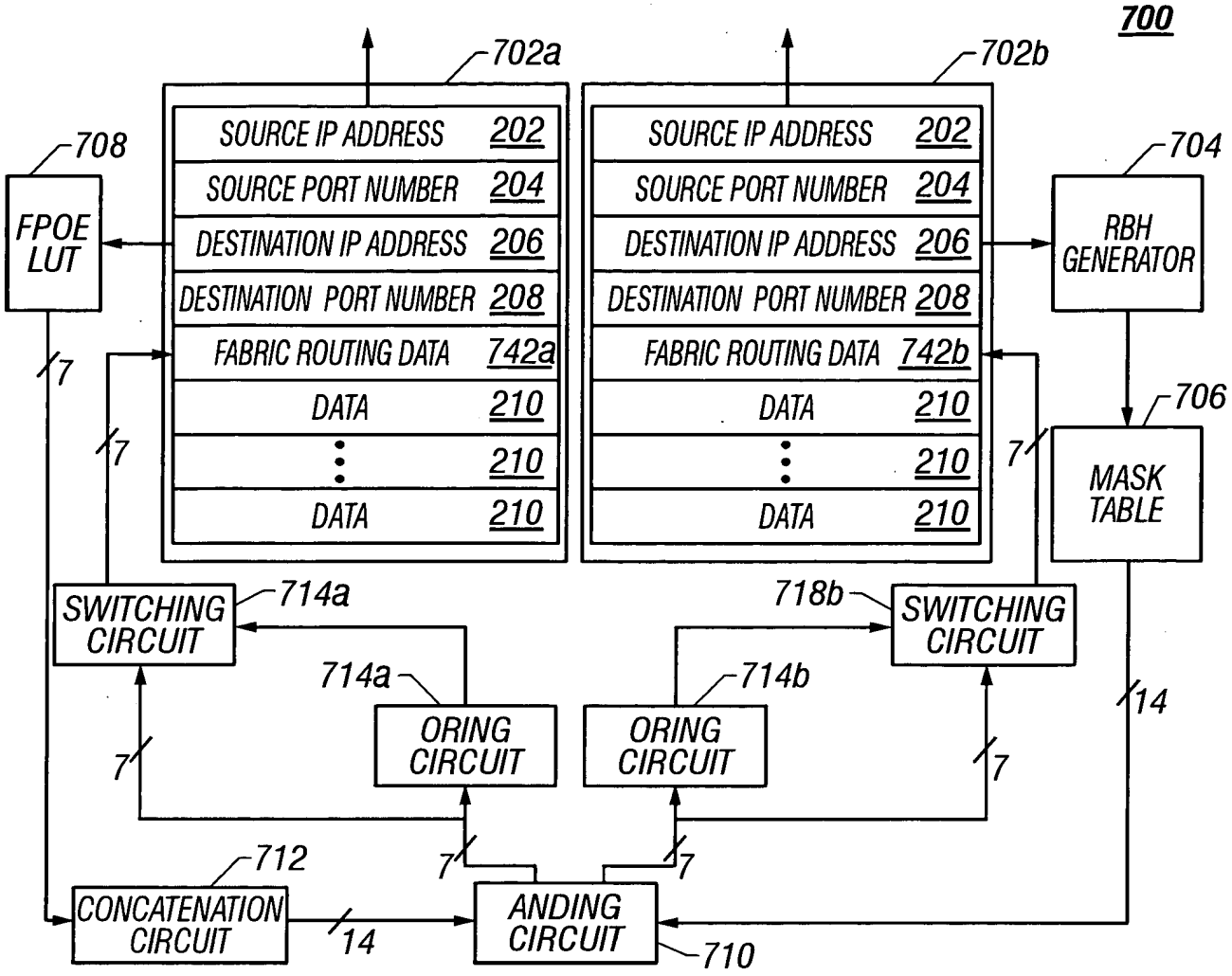
700
702a
SOURCE IP ADDRESS 202
SOURCE PORT NUMBER 204
DESTINATION IP ADDRESS 206
DESTINATION PORT NUMBER 208
FABRIC ROUTING DATA 742a
DATA 210
DATA 210
DATA 210
702b
SOURCE IP ADDRESS 202
SOURCE PORT NUMBER 204
DESTINATION IP ADDRESS 206
DESTINATION PORT NUMBER 208
FABRIC ROUTING DATA 742b
DATA 210
DATA 210
DATA 210
708
FPOE LUT
704
RBH GENERATOR
706
MASK TABLE
SWITCHING CIRCUIT
714a
718b
SWITCHING CIRCUIT
714a
ORING CIRCUIT
714b
ORING CIRCUIT
712
CONCATENATION CIRCUIT
14
ANDING CIRCUIT
710
7
14

FIG. 7

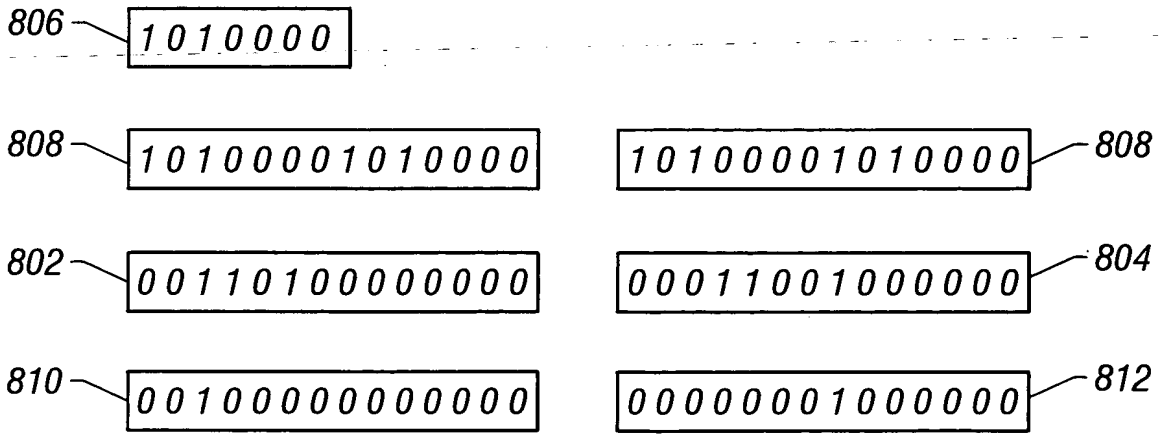
806
1010000
808
1010000101000 0
1010000101000 0
808
802
0011010000000 0
0001100100000 0
804
810
0010000000000 0
0000000100000 0
812

FIG. 8